

AMENDMENTS TO THE SPECIFICATION

Please replace paragraph [0006] with the following:

[0006] With the hydrogen electrode, the atomic ~~atomicity~~-hydrogen exists sufficiently on the electrode surface to form the standard potential of the electrode. Under the condition, when hydrogen gas contacts with the detecting electrode to be dissociated into atomic ~~atomicity~~-hydrogen, the detecting electrode exhibits an electric potential in proportion to the amount of the atomic ~~atomicity~~-hydrogen, and the difference in potential between the hydrogen gas electrode and the detecting electrode is detected as the function of the hydrogen gas concentration. In other words, with the new hydrogen gas sensors, since the detecting hydrogen gas pressure is measured in comparison with the standard hydrogen gas pressure, both of electrodes must be disposed independently in the standard hydrogen gas atmosphere and the detecting gas atmosphere, so that another "standard hydrogen gas pressure room must be provided in addition of the detecting gas pressure room. In this point of view, the hydrogen gas sensors are required to be enlarged in size and the use condition and the like of the hydrogen gas sensors are restricted.

Please replace paragraph [0029] with the following:

[0029] As the solid electrolyte can be exemplified phosphorous tungsten ~~tungstic~~-acid or phosphorous molybdenum ~~molybdic~~-acid which has good adhesion for the first electrode and the second electrode and is excellent as an electrolyte for the hydrogen gas sensor.